



SONIA

AUTONOMOUS UNDERWATER VEHICLE



PARTNERSHIP PLAN 2025-2026

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ÉCOLE DE
TECHNOLOGIE
SUPÉRIEURE

Université du Québec

THE team



S.O.N.I.A., the autonomous underwater vehicle club from **École de technologie supérieure (ÉTS)** distinguishes itself in the conception of AUV's, integrating the latest technological advances. S.O.N.I.A. is engaged to share and collaborate with others, it is a core value of our club.

The mechanical team

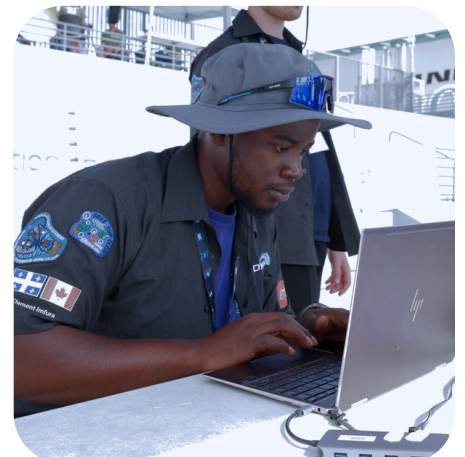
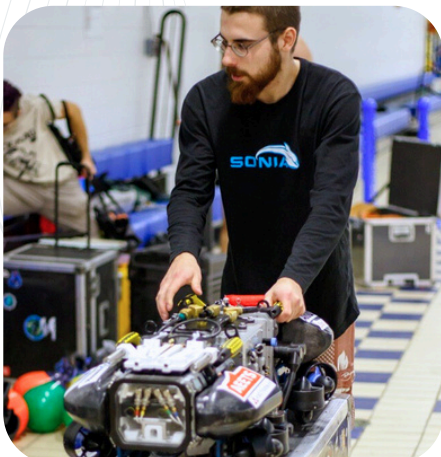
is responsible for the conception and manufacturing of the submarine's hull and the internal integrated system support rackings. Their expertise is crucial to guarantee hull integrity and submarine robustness.

The electrical team

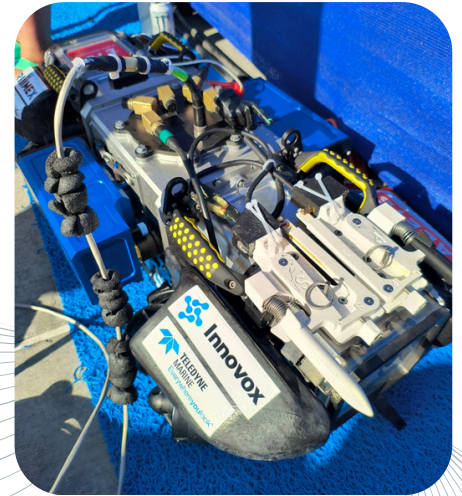
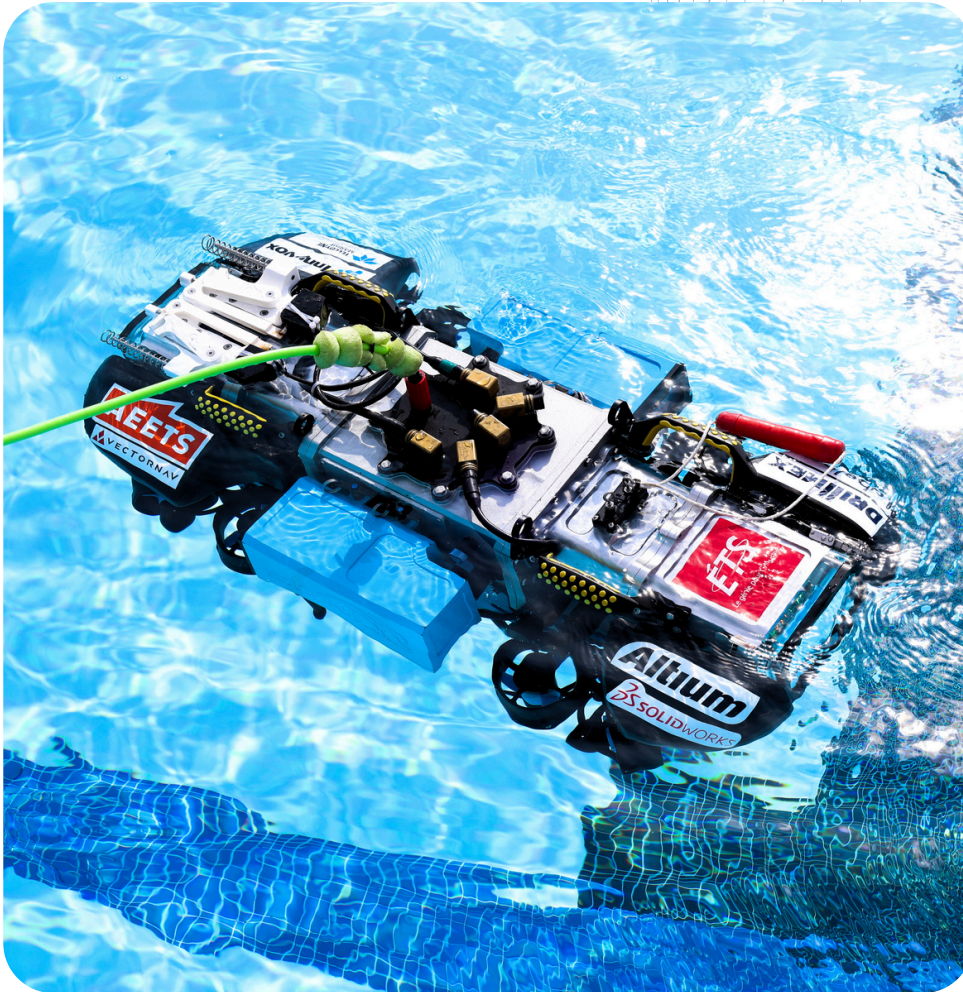
designs and manufactures power distribution, motor control, and communication systems, ensuring the proper operation of vehicles and the integration of various sensors.

The software team

develops systems responsible for processing sensor data, as well as the artificial intelligence that enables submarines to operate autonomously and compete on the global stage.

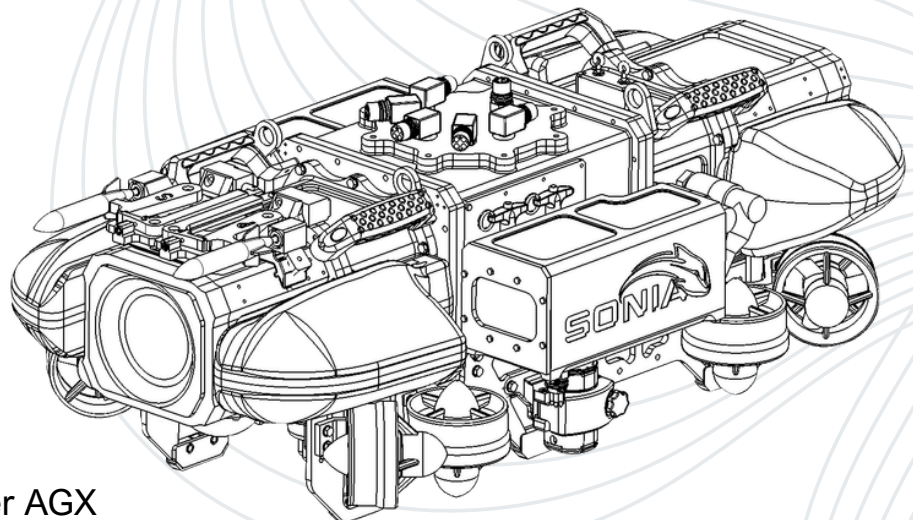


SUBMARINE : AUV 8.1

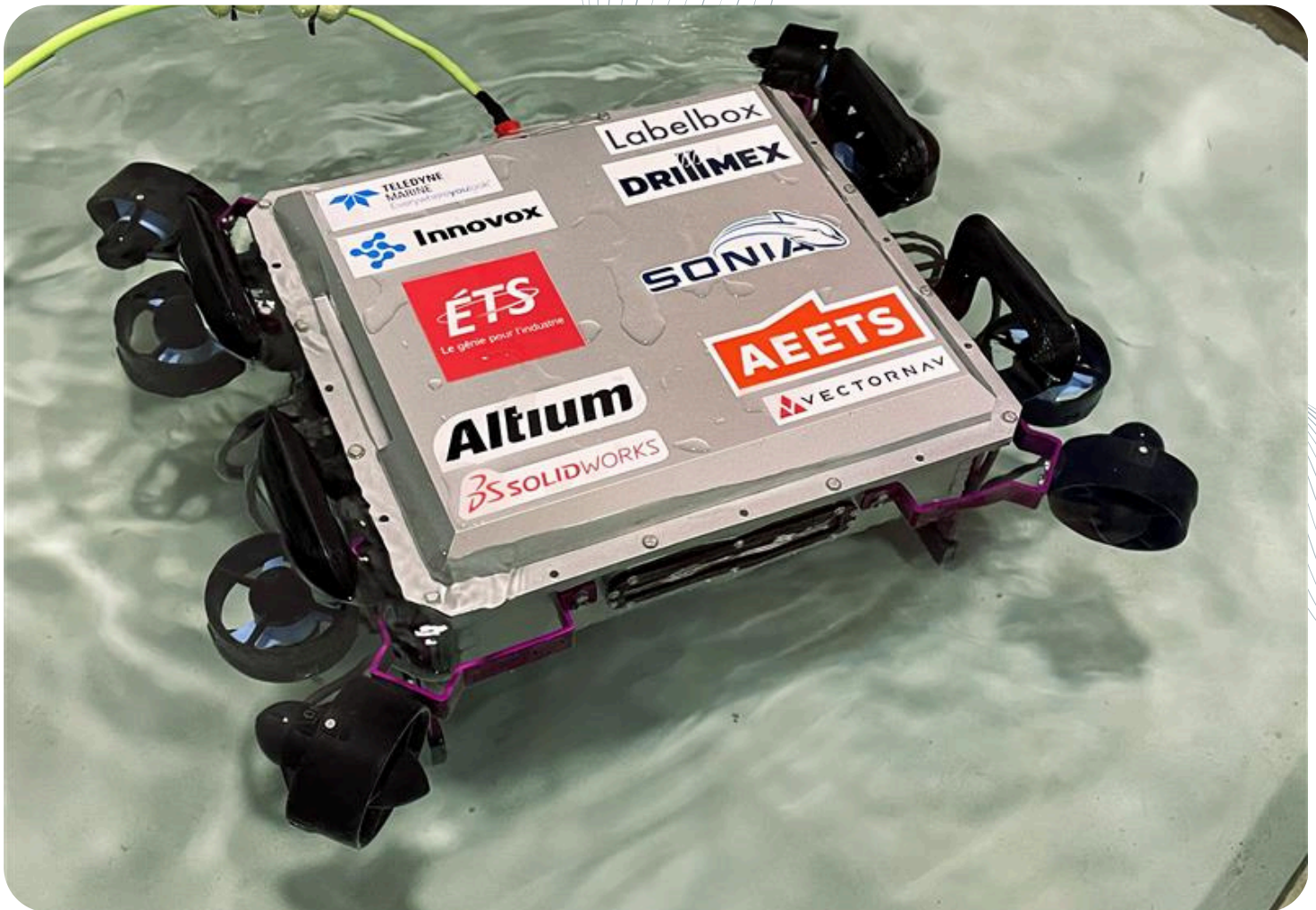


FEATURES

- Anodized and painted aluminum hull
- 8 motors
- 6 degrees of freedom
- Navigation sensors:
 - DVL
 - Depth sensor
 - IMU
 - Stereo camera
- Actuation system:
 - Torpedoes
 - Marker deployment
- Onboard computer: Jetson Xavier AGX
- 2 external batteries
- 1–3 hours of autonomy, depending on the tasks performed

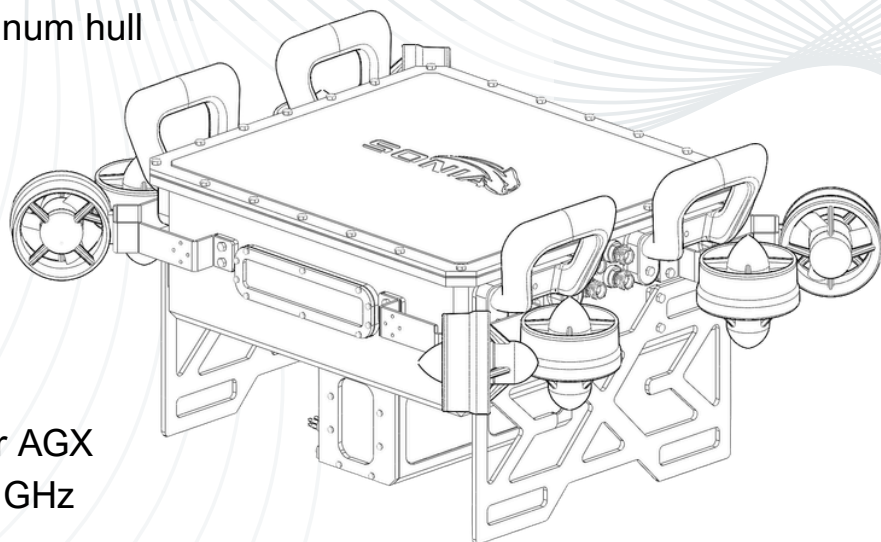


SUBMARINE : LITE 1

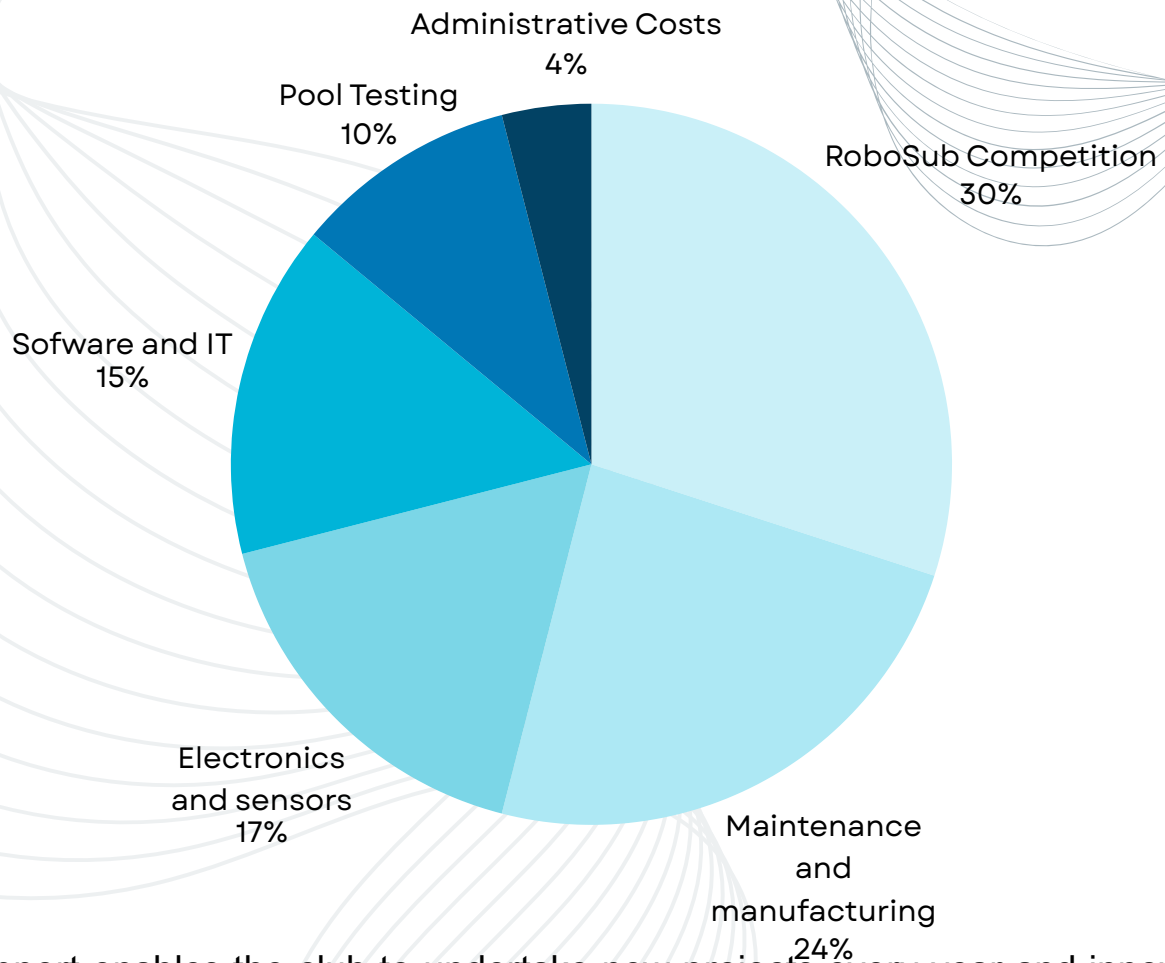


FEATURES

- Welded and powder-coated aluminum hull
- Anodized legs and accessories
- 8 motors
- 6 degrees of freedom
- Navigation sensors:
 - Depth sensor
 - IMU
 - ZED 2i stereo camera
- Onboard computer: Jetson Xavier AGX
 - 8-core ARM processor @ 2.2 GHz
 - 512-core GPU @ 1377 MHz
- 45 minutes to 1 hour of autonomy, depending on the tasks performed



BUDGET



Your support enables the club to undertake new projects every year and innovate in the field of autonomous submarines. Your contribution also allows the team to participate in an annual competition and push themselves to achieve their personal best. Without you, this journey would not be possible.



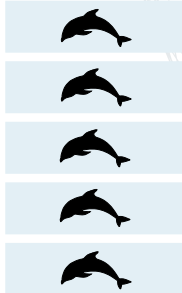
FUNDING CHARTER

VISUAL IDENTITY

- Logo on website
- Logo on banner
- Logo on competition uniform
- Logo on the submarines
- Logo in promotional video

Diamond

+7500\$



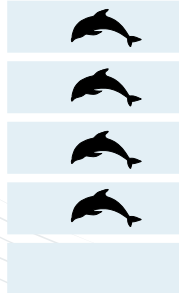
Platinum

+5000\$



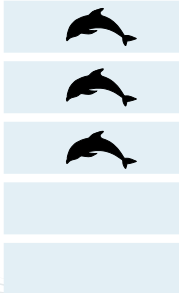
Gold

+3000\$



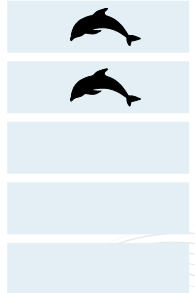
Silver

+1000\$



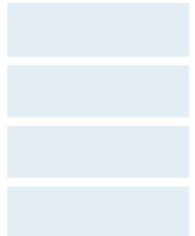
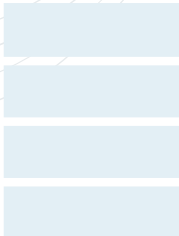
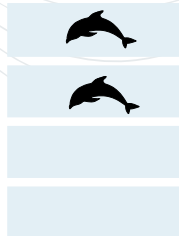
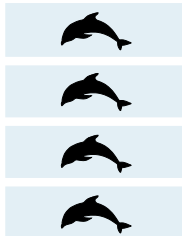
Bronze

+500\$



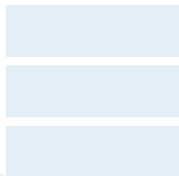
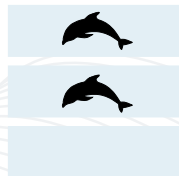
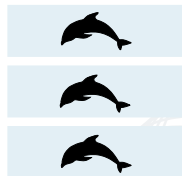
DIGITAL VISIBILITY

- Logo on our posts
- Logo in our highlights
- Custom post
- Reel / presentation video



Advantages and exchange

- Personalized Thank-you plaque
- Workshop tour and team meeting
- Flexible benefit to be defined together



*Software sponsorships are limited to the Platinum tier and below.

**Sponsors providing non-financial support are evaluated based on market value.

ADVANTAGES

Impact and visibility

S.O.N.I.A. provides you with increased visibility within the second-largest engineering faculty in Canada. ÉTS trains more than 25% of engineers in Quebec. In addition, the club has more than 1,200 followers across its social media platforms.

Talent and recognition

Your support for the club helps increase your company's visibility among a multidisciplinary community of talented and dedicated students who will be entering the workforce in the coming years.

Social impact

In addition to designing autonomous submarines, the club is committed to promoting science and engineering among young people. By supporting the club, you demonstrate your commitment to this social mission.

OUR ACHIEVEMENTS: AN INNOVATIVE TEAM



Prizes & Distinctions

- **1re place – MathWorks Simulation Challenge (2025)**
- **1re place – Angés du Génie : Systèmes intelligents ou automatisés (2025)**
- **Prix spécial RoboSub : Best in Style (2024)**
- **Prix spécial RoboSub : Data Sharing Pioneers (2022)**
- **Prix des juges : Inter-vehicle Communications (2022)**
- **1re place – Overall ranking– QC AUV Challenge (2021)**

Design & Documentation

- **4e position – Design Documentation (2024)**
- **4e position – Technical Design Report (2023)**
- **5e position – Assessment Rankings (2023)**
- **2e position – Design Documentation (2022)**

Highlights

- **First Canadian team** to use an inter-submarine communication system (2022)
- **Creation of the QC AUV Challenge**
- **First Canadian team** to participate in RoboSub in 2000

Competences & Videos

- **3e position – Team Introduction Video (2025)**
- **1re position – Skills Video – Hull Design (2021)**
- **2e position – Skills Video – Sensor Optimization (2021)**



Club S.O.N.I.A.

Roxanne Parent Thibeault, Capitaine

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